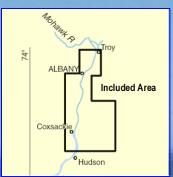
# **BookletChart**<sup>TM</sup>

# Hudson River – Coxsackie to Troy NOAA Chart 12348



A reduced-scale NOAA nautical chart for small boaters When possible, use the full-size NOAA chart for navigation.



- Complete, reduced-scale nautical chart
- Print at home for free
- Convenient size
- Up-to-date with Notices to Mariners
- Compiled by NOAA's Office of Coast Survey, the nation's chartmaker



# Published by the National Oceanic and Atmospheric Administration National Ocean Service Office of Coast Survey

<u>www.NauticalCharts.NOAA.gov</u> 888-990-NOAA

### What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

### What is a BookletChart<sup>™</sup>?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <a href="http://www.NauticalCharts.NOAA.gov">http://www.NauticalCharts.NOAA.gov</a>.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

### **Notice to Mariners Correction Status**

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.

For latest Coast Pilot excerpt visit the Office of Coast Survey website at <a href="http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=123">http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=123</a> 48.



(Selected Excerpts from Coast Pilot)
Hudson River, sometimes called North
River in New York City, has its source in the
Adirondack Mountains, about 275 miles
along its course from a junction with East
River at The Battery, NY, and flows in a
general southerly direction into New York
Upper Bay. Troy Lock and Dam, 134 miles
above The Battery, permits vessels to pass
from tidewater to the upper river and the
New York State Canal System. The river

water is usually fresh as far south as Poughkeepsie, halfway from Troy Lock and Dam to The Battery.

New York City extends along the eastern bank of Hudson River for a distance of about 14 miles above The Battery. For about 5 miles

northward from The Battery, the New York waterfront is an almost continuous line of wharves and piers, some of which can accommodate the largest transatlantic liners.

On the opposite side of Hudson River from New York City are Jersey City, Hoboken, Weehawken, West New York, Guttenberg, Edgewater, Fort Lee and Englewood Cliffs. The shoreline from Jersey City to Edgewater is lined with ruined piers and piling fields. Mariners must check with local authorities and property owners for approval prior to mooring.

Channels.—The lower Hudson River has depths of 43 feet or more in midchannel from deep water in Upper New York Bay off Ellis Island to the upper limit of New York City's major wharves at 59th Street, about 5.3 miles above the entrance. Above this point, the Federal project depth is 32 feet to Albany. (See Notice to Mariners and latest editions of charts for controlling depths.)

**Seasonal buoyage.**—The lighted buoys marking the Hudson River channel are replaced during the winter by smaller lighted ice buoys or unlighted buoys.

**Bridges.**—The bridges over Hudson River from New York to Albany have either fixed or suspension spans.

The limiting bridge clearance over the lower Hudson River is 139 feet, at the Tappan Zee Bridge (IS 87/287). The middle Hudson River has a limiting bridge clearance of 134 feet at the Mid-Hudson Bridge (US Route 44) at Poughkeepsie. The upper Hudson River has a limiting bridge clearance of 135 feet at the Castleton-on-Hudson Bridge (New York State Thruway/IS 90 E-W). The least clearance of the overhead cables is 145 feet.

**Anchorages.**—General anchorages begin 5 miles above The Battery and extend upriver for about 10 miles. (See **110.1** and **110.155**, chapter 2, for limits and regulations.)

Vessels proceeding from New York to Albany occasionally anchor overnight in the vicinity of Kingston, 79 miles above The Battery and 47 miles below Albany, to await daylight hours for passing through the constricted part of the river.

A buoyed anchorage, 400 feet wide and 2,400 feet long, is on the east side of the channel just above Stuyvesant (42°23'22"N., 73°46'53"W.), about 15 miles below Albany.

Dangers.—Numerous fishtraps are planted each spring, usually from about mid-March to mid-May, during the seasonal run of shad to the spawning grounds in the upper Hudson. The charts show the fishtrap areas in the 30-mile stretch beginning about 5 miles above The Battery and extending upriver to Stony Point; Corps of Engineers permits are required for the placing of shad nets and poles in the charted areas. Outer limits of the nets usually are marked by flags during the day and by lights during the night. Caution is advised when navigating a fishtrap area because broken-off poles from previous traps may remain under the surface.

Navigation of the river is easy as far north as Kingston, but above Kingston it is more difficult because of the numerous steep-to shoals and middle grounds. In general tows are apt to follow the shoreline which is most favorable as regards wind and current; with a strong northwest wind, tows will follow the west shore regardless of the direction in which they are traveling.

**Regulated Navigation Area.**—The Coast Guard established a regulated navigation area on the navigable waters of the Hudson River south of the Troy Locks, effective during certain ice conditions. (See **33 CFR 165.165,** chapter 2, for limits and regulations.)

U.S. Coast Guard Rescue Coordination Center 24 hour Regional Contact for Emergencies

RCC Boston Commander

1st CG District (617) 223-8555 Boston, MA

7



NOAA's navigation managers serve as ambassadors to the maritime community.

They help identify navigational challenges facing professional and recreational mariners, and provide NOAA resources and information for safe navigation. For additional information, please visit nauticalcharts.noaa.gov/service/navmanagers

To make suggestions or ask questions online, go to *nauticalcharts.noaa.gov/inquiry*. To report a chart discrepancy, please use *ocsdata.ncd.noaa.gov/idrs/discrepancy.aspx*.

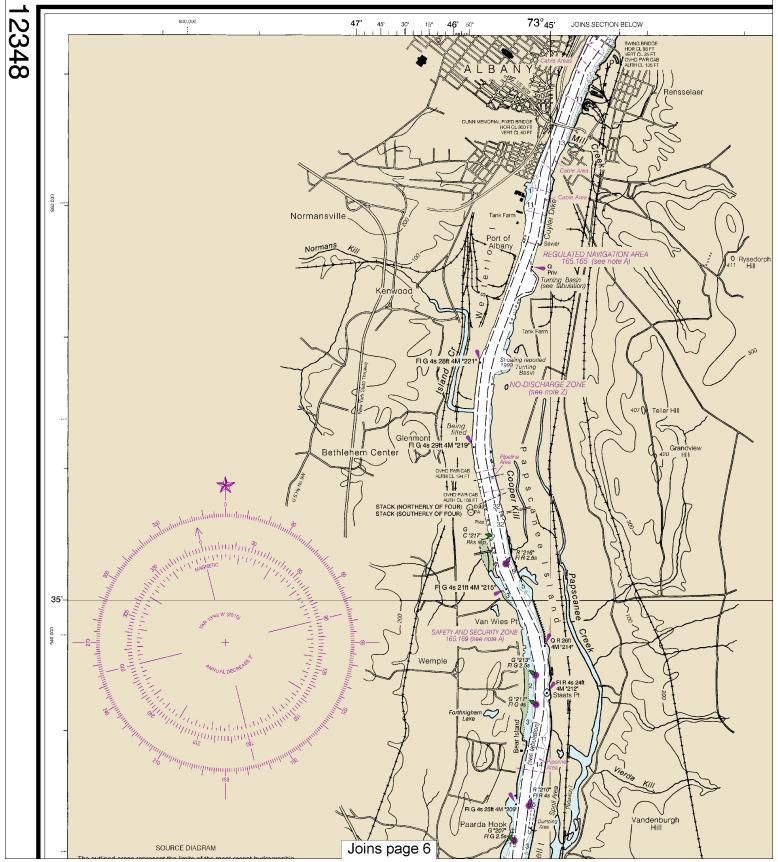
# Lateral System As Seen Entering From Seaward on navigable waters except Western Rivers



This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service: NOAA, Silver Spring, Maryland 20910-3282.

# **SOUNDINGS IN FEET**

Formerly C&GS 284, 1st Ed., Dec.





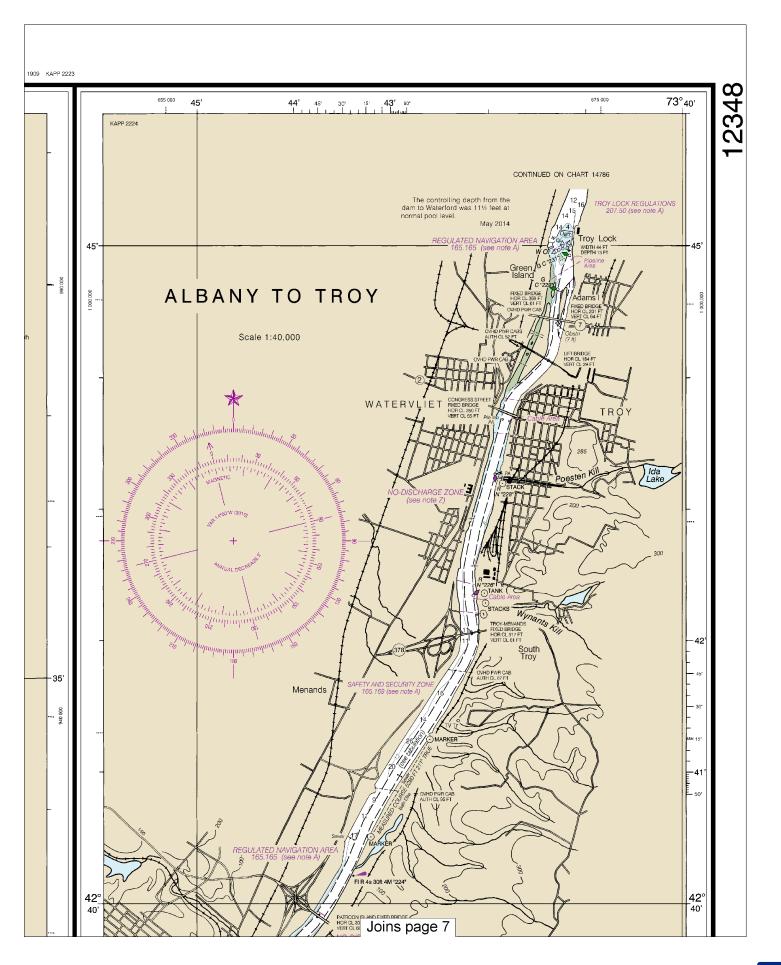
Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

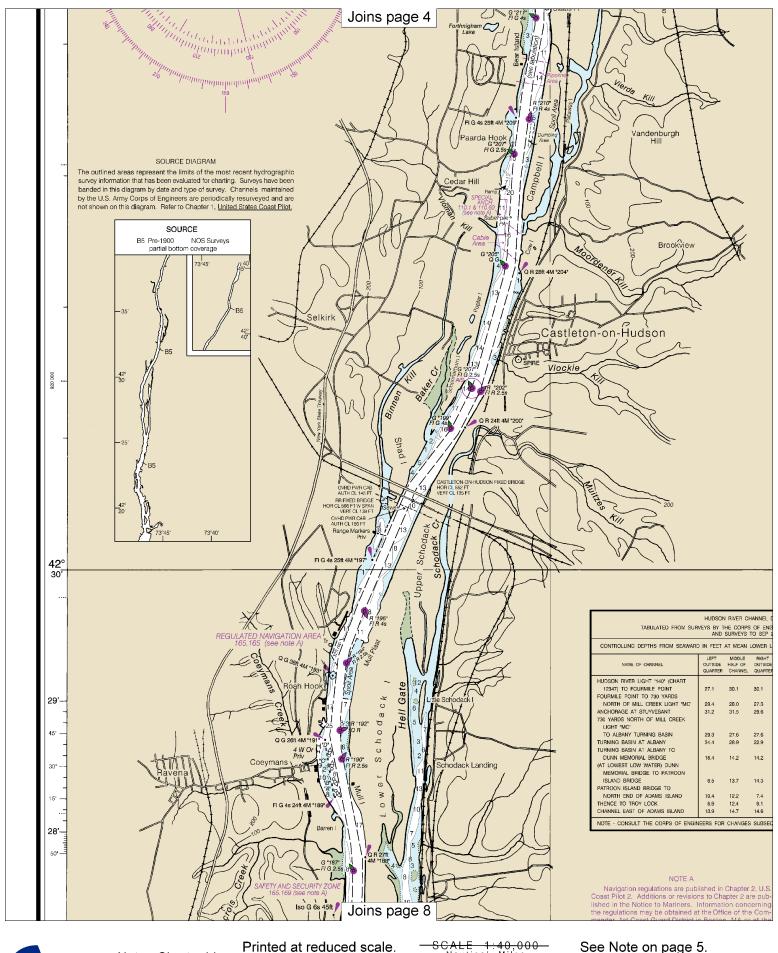
SCALE 1:40,000
Nautical Miles

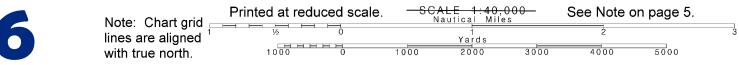
Yards

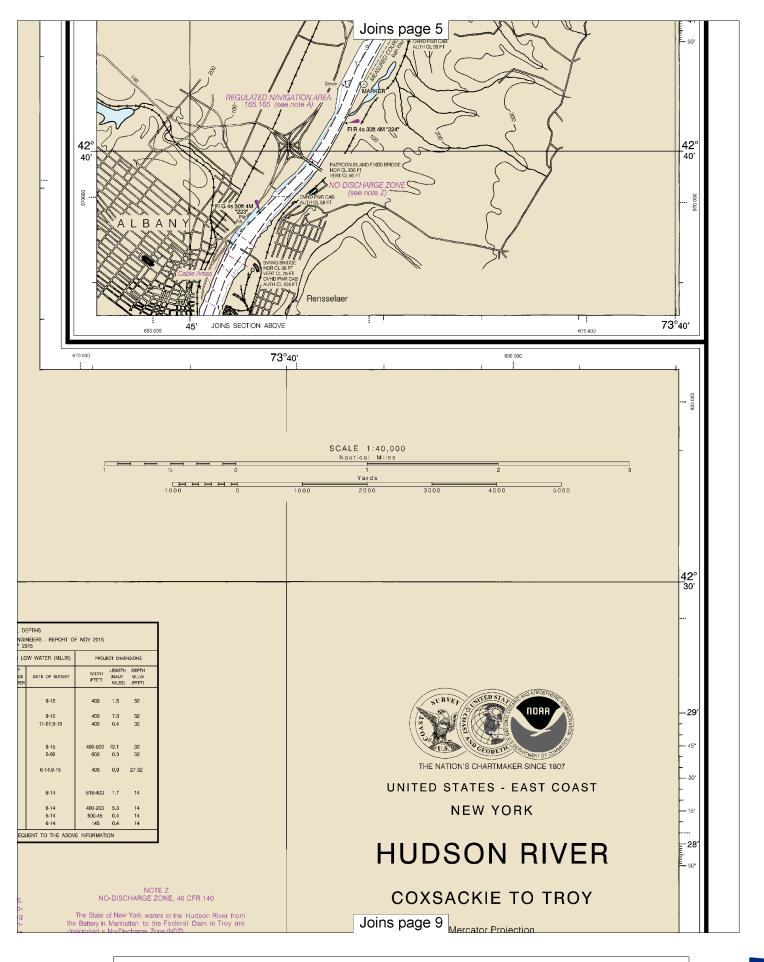
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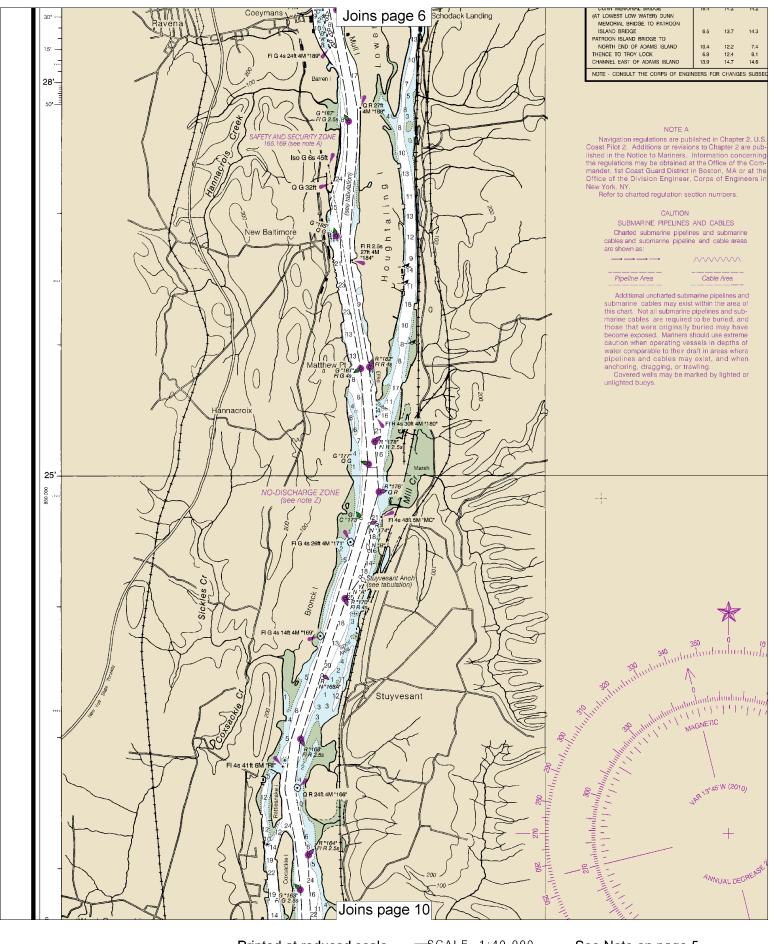


This BookletChart was reduced to 75% of the original chart scale. The new scale is 1:53333. Barscales have also been reduced and are accurate when used to measure distances in this BookletChart.











Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

SCALE 1:40,000
Nautical Miles

Yards

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١.,	6-14 616-400 1.7 14 6-14 400-200 5.3 14 5-14 600-45 0.4 14	NEW YORK			
	6-14 145 0.4 14  THE ABOVE INFORMATION				
		HUDSON RIVE	ΞR		
	NOTE Z NO-DISCHARGE ZONE, 40 CFR 14	COXSACKIE TO TRO	Υ		
	The State of New York waters in the Hudson the Battery in Manhattan to the Federal Dami				
	designated a No-Discharge Zone (NDZ).  Under the Clean Water Act, Section 312,	Scale 1:40,000 at Lat. 42°31'	Mercator Projection Scale 1:40,000 at Lat. 42°31'  North American Datum of 1983 (World Geodetic System 1984)		
	operating within a No-Discharge Zone (NDZ) are completely prohibited from discharging any sewage, treated or untreated, into the waters. All vessels with an installed marine sanitation device (MSD) that are navigating, moored.	(World Geodetic System 1984)			
	anchored, or docked within a NDZ must hav disabled to prevent the overboard discharge (treated or untreated) or install a holding tank. for the NDZ are contained in the U.S. C Additional information concerning the regu	SOUNDINGS IN FEET AT HUDSON RIVER DATUM (Mean lower low water during lowest river stages)	AT HUDSON RIVER DATUM		
	requirements may be obtained from the Environmental Protection Agency (EPA) web site: http://www.epa.gov/owow/oceans/regulatory/vessel_sewage/.  NOAA WEATHER RADIO BROADCASTS  The NOAA Weather Radio stations listed below provide continuous weather broadcasts.				
		Additional information can be obtained at nauticalcharts.nos			
	The reception range is typically 20 nautical miles from the antenna site, but of as much as 100 nautical miles for static high elevations.	Hydrography and topography by the National Ocean Service Survey, with additional data from the Corps of Engineers, a			
	Kingston, NY WXL-37 162.475 Albany, NY WXL-34 162.550	TIDAL INFORMATION			
		PLACE Height referred to clature  NAME (LAT/LONG) Mean Higher Mean Higher High Water High Water High Water Mean Higher Mean High Water Mean Hi	n Mean		
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		Dashes () located in datum columns indicate unavailable datum values for a tide station. If tide predictions, and tidal current predictions are available on the Internet from http://tidesand.	Real-time water levels.		
			JTION		
		is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84).  Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.294" northward and 1.559" eastward to agree with this chart.	rs. r months or when end aids to navigation a or removed. For det		
		CURRENT WEST WITH	st Guard Light List		
		Report all spills of oil and hazardous sub- stances to the National Response Center via floating aids to navig 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).	on these aids has b t.		
11	30	CAUTION The prudent marin	NING er will not rely solely		
-1177	halandy 20	Improved channels shown by broken lines are subject to shoaling, particularly at the edges.  CAUTION  AND THE PROPERTY OF T	6. Coast Guard Light		
o 20 material and o 20 materia		TO TO LOCAL TO THE CONTROL OF THE CO	PLANE COORDINATE GRID (based on NAD 1927)		

Vessels operating in fresh water lakes or rivers shall not discharge sewage, or ballast, or bilge water within such areas adjacent to domestic water intakes as are designated by the Commissioner of Food and Drugs (21 CFR 1250 93). Consult U.S. Coast Pilot 6 for important supplemental mental information.

Mariners are warned to stay clear of the protective riprap surrounding navigational light structures shown thus:

cts in aids to his chart. See

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Light List for erning aids to

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rely solely on articularly on lard Light List

The New York State Grid is indicated on this chart at 10,000 foot intervals thus: \_ + \_ The last three digits are omitted.

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.) Aids to Navigation (lights are white unless otherwise indicated):

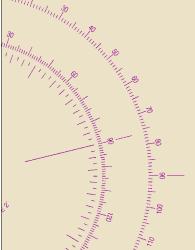
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F fixed

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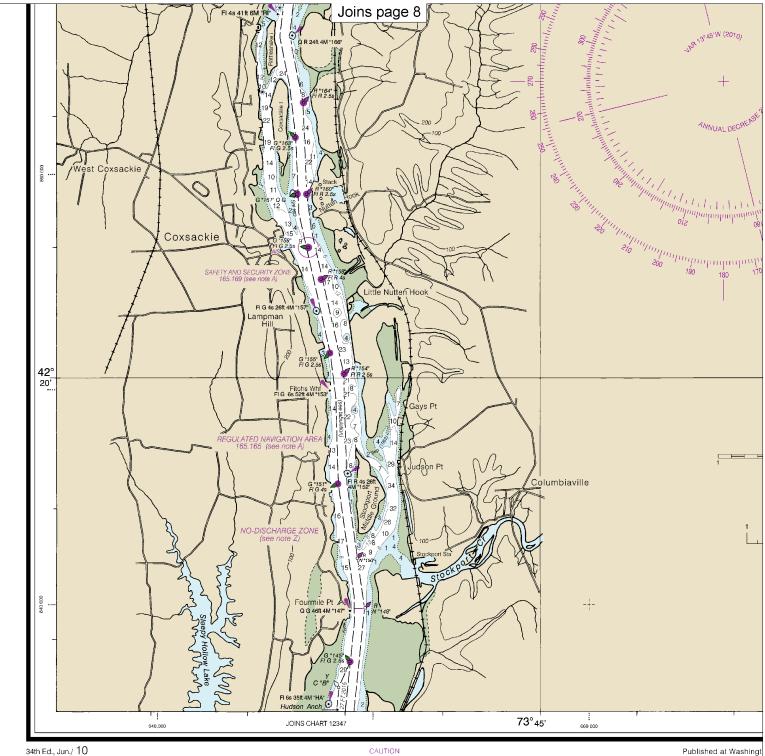
Joins page 11

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12348

CAUTION

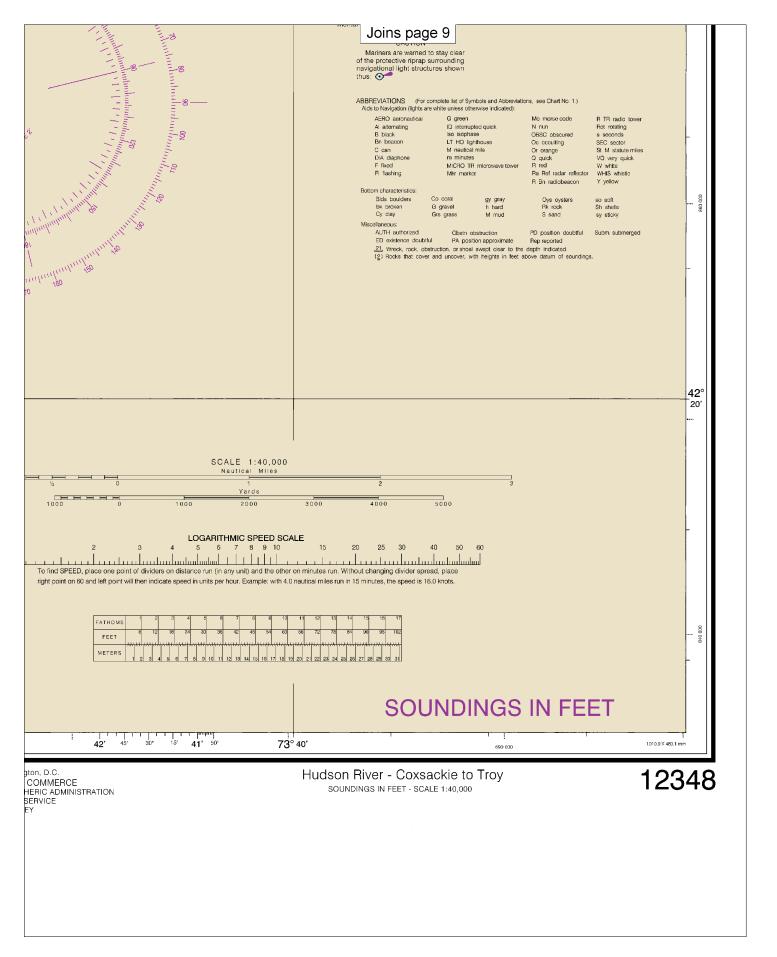
This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at nauticalcharts.noaa.gov.

PUDIISNED AT WASHINGT U.S. DEPARTMENT OF C NATIONAL OCEANIC AND ATMOSPHI NATIONAL OCEAN SE COAST SURVE

Last Correction: 7/13/2016. Cleared through:

LNM: 2716 (7/5/2016), NM: 2816 (7/9/2016), CHS: 0616 (6/24/2016)

CALE 1:40,000 Nautica<u>l Mile</u>s See Note on page 5. Printed at reduced scale. Note: Chart grid lines are aligned 1/2 0 Yards 1000 0 1000 3000 4000 5000 with true north. 2000





## VHF Marine Radio channels for use on the waterways:

**Channel 6** – Inter-ship safety communications.

Channel 9 – Communications between boats and ship-to-coast.

Channel 13 – Navigation purposes at bridges, locks, and harbors.

**Channel 16** – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other

vessels. Contact the other vessel, agree to another channel, and then switch.

Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here. Channels 68, 69, 71, 72 and 78A – Recreational boat channels.

**Getting and Giving Help** — Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.

### **Distress Call Procedures**

- Make sure radio is on.
- Select Channel 16.
- Press/Hold the transmit button.
- Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of

Emergency; Number of People on Board.

- · Release transmit button.
- Wait for 10 seconds If no response Repeat MAYDAY call.

HAVE ALL PERSONS PUT ON LIFE JACKETS!



NOAA Weather Radio All Hazards (NWR) is a nationwide network of radio stations broadcasting continuous weather information directly from the nearest National Weather Service office. NWR broadcasts official Weather Service warnings, watches, forecasts and other hazard information 24 hours a day, 7 days a week.

http://www.nws.noaa.gov/nwr/

# **Quick References**

Nautical chart related products and information — http://www.nauticalcharts.noaa.gov

Interactive chart catalog — http://www.charts.noaa.gov/InteractiveCatalog/nrnc.shtml

Report a chart discrepancy — http://ocsdata.ncd.noaa.gov/idrs/discrepancy.aspx

Chart and chart related inquiries and comments — http://ocsdata.ncd.noaa.gov/idrs/inquiry.aspx?frompage=ContactUs

Chart updates (LNM and NM corrections) — http://www.nauticalcharts.noaa.gov/mcd/updates/LNM\_NM.html

Coast Pilot online — http://www.nauticalcharts.noaa.gov/nsd/cpdownload.htm

Tides and Currents — http://tidesandcurrents.noaa.gov

Marine Forecasts — http://www.nws.noaa.gov/om/marine/home.htm

National Data Buoy Center — http://www.ndbc.noaa.gov/

NowCoast web portal for coastal conditions — http://www.nowcoast.noaa.gov/

National Weather Service — http://www.weather.gov/

National Hurrican Center — http://www.nhc.noaa.gov/

Pacific Tsunami Warning Center — http://ptwc.weather.gov/

Contact Us — http://www.nauticalcharts.noaa.gov/staff/contact.htm



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This Booklet chart has been designed for duplex printing (printed on front and back of one sheet). If a duplex option is not available on your printer, you may print each sheet and arrange them back-to-back to allow for the proper layout when viewing.